

Patent [19]

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**[54] AIR CLEANER**

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[51] Int. Cl.⁶ F24F00100; A61L00920; B01J03502; B01J03504; B01J03506**[57] ABSTRACT**

PROBLEM TO BE SOLVED: To require no exclusive support member, which is required separated, since a reflection body is provided for directing light from a light source to a photocatalyst in an air cleaner using the photocatalyst.

SOLUTION: An air cleaner is applied to the photodeodorizing unit 24 of an air conditioner. A reflection member 52 supported by an outer shell member 51a is provided along the surface of a cylindrical glass pipe of the outer shell member 51a of a light source 51 comprising a cold cathode tube. The reflection member 52 can reflect the light of the light source 51 toward a photocatalyst element 61 and efficiently light it. The reflection member 52 may be a reflective adhesive tape such as an aluminium tape or an aluminium deposited surface. In this case, a thin reflection member 52 is provided on the surface of the outer shell member 51a. Accordingly, even when the light source 51 and the reflection member 52 are arranged in an air duct, the increase of air duct resistance can be prevented. As a result, a driving sound can be reduced. In such a way, a structure can be simplified.

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